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October arrival for Spectrum Plus 2

AMSTRAD PC Full review inside Starts on p17

SOFTWARE New fast Basic for the Atari STs BMX Simulators and Asterix reviewed

NEWS DESK The Amstrad threat to Atari: Tramiel speaks out - p12 Beyond's Star Trek



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No Plus 2 till October



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Low-cost hardcard planned for PC

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Details from ASD Periph els. 03224 49235,49.

Amstrad PC



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validation Paul Muleit I 1732 450908.

Sidecar to launch soon?

First launches £50 PC ntegrated package



Apple launches new 16-bit IIGS

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Product News

New printers from Citizen

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And answers ...

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News Feature

Atari versus Amstrad

John Lettice talks to Atari president Sam Translel about the newest Atari computers

If the reset ACM then proved any, being their failure of the reset of the either the service of the reset of the re

Belling which all on the country that we want of the manufacture is a PC in the week of the show, and the manufacture, although on excellent implementation of the BM standard, is in no resistant several to the BM standard, is in no resistant several to exceed the standard several sever

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to a lot earlier than Planever.

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The basic alternative for the ST



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Programming: BBC



Programming: Spectrum 128

Wobbling Jellies by M.D. Lancaster





Programming: Spectrum 128

10 REM
20 REM Set up initial valables and loc
PS.
30 REM
40 LET c=0
50 FOR t = 0.1 TO 7 STEP (7/13)
60 REM
70 REM Function to be plotted.
80 REM
90 DEF FN a(x,y)=t*EXP (2*COS ((x*x+y*
y)*.001))
100 FOR x=0 TO 127
110 LET y=SQR (16129-x*x)
120 LET m=-1e9
130 FOR z=-y TO y STEP 4
140 LET k=FN a(x, z)
150 LET p=k+z/4+88
160 IF pK=m THEN GO TO 190
170 LET m=p
180 PLOT 128+x,p: PLOT 128-x,p
190 NEXT z
200 NEXT X
210 REM
220 REM Save screen to ram disc.
230 REM
240 SAVE (CHR\$ (65+c)CODE 16384,6144
250 CLS
260 LET c=c+1
270 NEXT h
280 GO TO 630
290 REM
300 REM Display sequence of 12 frames.

	310 REM
8	
1	320 CLS
ľ	330 FOR f = 65 TO 76
l	340 LOAD !CHR\$ (f)CODE
	350 NEXT f
ü	360 FOR f = 75 TO 66 STEP -1
ı	370 LOAD (CHR\$ (f)CODE
	380 NEXT f
V	390 G0 T0 330
	400 REM
	410 REM Routine to load frames from ra
	disc and save to microdrive.
	420 REM
1	430 CLS : PRINT AT 5,3; "Insert a cart:
	dge with": AT 7,3; "at least 90K of free
	pace."
1	440 PRINT AT 9,3; "Press any key when r
1	ady"
J	450 PAUSE 0
	460 FOR f = 65 TO 76
	470 LOAD !CHR\$ (f)CODE
	480 SAVE *"m";1;CHR\$ (f)CODE 16384,614
1	490 NEXT f
1	500 SAVE *"m";1;"function" LINE 550
1	510 GD TO 290
١	520 REM
ı	530 REM Load frames from microdrive an
ı	save to ram disc.
ı	540 REM
1	550 FOR f = 65 TO 76
1	560 LOAD *"m";1;CHR\$ (f)CODE
	570 SAVE !CHR\$ (f)CODE 16384,6144

590 GO TO 290 600 REM 610 REM Frames now generated prompt for storage mecha. 620 REM . 630 PRINT AT 5,3; "Save to (M) icrodrive " 640 PRINT AT 7,3;" or (T) ape." 650 INPUT a\$ 660 IF a\$="m" OR a\$="M" THEN GO TO 40 670 IF a\$	
610 REM Frames now generated prompt for storage media. 620 REM . 630 PRINT AT 5,3; "Save to (M) idrodrive 640 PRINT AT 7,3; " or (T) ape." 650 INPUT a\$ 660 IF a\$="m" OR a\$="M" THEN GO TO 40	
storage media. 620 REM 630 PRINT AT 5,3; "Save to (M) icrodrive " 640 PRINT AT 7,3;" or (T) ape." 650 INPUT a\$ 660 IF a\$="m" OR a\$="M" THEN GO TO 40	
620 REM	
630 PRINT AT 5.3; "Save to (M>icrodrive" 640 PRINT AT 7.3; " or (T)ape." 650 INPUT a\$ 660 IF a\$="m" OR a\$="M" THEN GO TO 40	
# 640 PRINT AT 7,3;" or <t>ape." 650 INPUT a\$ 660 IF a\$="m" OR a\$="M" THEN GO TO 40</t>	,
# 640 PRINT AT 7,3;" or <t>ape." 650 INPUT a\$ 660 IF a\$="m" OR a\$="M" THEN GO TO 40</t>	
650 INPUT a\$ 660 IF a\$="m" OR a\$="M" THEN GO TO 48	
660 IF as="m" OR as="M" THEN GO TO 40	
670 IF a\$<>"t" AND a\$<>"T" THEN GO TO	0
650	
680 REM	
690 REM save to tape	8
700 REX	ă
710 SAVE "function" LINE 800	ł
720 FOR f = 65 TO 76	ď
730 LOAD !CHR\$ (f)CODE	
740 SAVE CHR\$ (f)CODE 16384,6144	
750 NEXT f	
760 GO TO 290	
770 REM	
780 REM load frames from tape and save	
to ram disc.	ı
790 REM	l
800 FOR f = 65 TO 76	
819 LOAD CHR≢ (f)CODE	
820 SAVE !CHR\$ (F)CODE 16384,6144	
830 NEXT f	
840 GO TO 290	

Programming: QL

Multi Sided Shapes

by Stephen Salmon

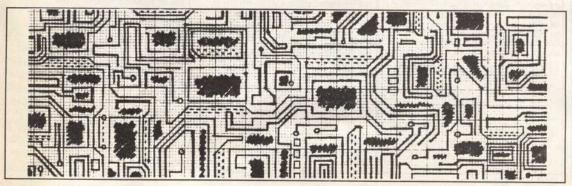
his program runs on a non-expanded QL using a monitor, although line 180 can be changed to Mode 8 to suit a TV.

When the program is first run an opening demonstration screen is drawn showing the three options available. These are displayed in the menu in the bottom right hand corner of the screen.

Multi Sided Shapes is made up of three procedures which can be incorporated into your own programs. These are Shapes, Prisms and Plains.

Shapes will draw polygons, the pattern

of which can be altered by changing the value of *Step* in line 1530. The *Prisms* procedure draws them with both ends open. The patterns can be altered by introducing a *Step* command into line 1770. The pattern produced by the *Plains* procedure can also be altered by changing the *Step* value in line 1990. The positions of the displays can be altered by using the *X-Centre* and *Y-Centre* values.



```
170 WINDOW#0.512.10.0.246
180 MODE 4
196 PAPER 254
200 CLS
210 LET LIMIT=50
220 LET NUMBER_OF_SIDES = 5
230 WINDOW#1,256,123,0.0
248 MULTI SIDED SHAPES
250 CSIZE 2,0
260 CHRSOR #1.0.80
270 PRINT"SHAPES"
288 CURSOR #1,0,0
290 PRINT "[1]"
300 WINDOW#1,256,123,256,0
310 LIMIT = 40
320 DEPTH = 70
330 NUMBER_OF_SIDES=7
340 PRISM
350 TNK 0
360 PRINT "121"
370 CURSOR #1,0,85
380 PRINT "PRISMS"
390 WINDOW #1,256,123,0,123
400 NUMBER_OF_PLAINS = 4
410 plains
420 TNK 0
430 CURSOR #1,0,0
440 PRINT "131"
450 CURSOR #1.0.90
460 PRINT "PLAINS"
 470 MENU
510 DEFine PROCedure MENU
520 WINDOW #1,256,123,256,123
540 CLS: PAPER #1,7,2:CLS
 560 INK #1,0
 570 CSIZE 3.1
                MENU"
580 PRINTS
590 CSIZE 2.0
 600 PRINT
 610 PRINT* [1] SHAPES*
 620 PRINT* [2] PRISMS*
 630 PRINT" [3] PLAINS"
 640 PRINT
 650 UNDER 1
                                   PROGRAM ....
 660 PRINT" PRESS KEY FOR
 670 UNDER 0
 680 IF INKEYS="1" THEN MULTIIN
 690 IF INKEY$="2" THEN PRISMIN
  780 IF INKEYS="3" THEN PLAININ
  710 GO TO 680
  720 END DEFine MENU
  740 DEFine PROCedure MULTIIN
  760 CSIZE 3,1
  770 PRINT
               SHAPES "
  780 PRINT
  790 CSIZE 2.0
  800 PRINT" INPUT THE NUMBER OF
  SIDES YOU WISH YOUR SHAPE TO HAVE"
  805 PRINT"IN THE RANGE 3 to 20"
  810 INPUT NUMBER OF 510ES
```

```
THEN 60 TO 810
830 PRINT "INPUT THE SIZE 10-50"
840 INPUT LIMIT
850 IF LIMIT(10 OR LIMIT)50 THEN 60 TO 840
870 WINDOW#1.512,246,0.0
S80 MULTI_SIDED_SHAPES
890 CSIZE 3,1
900 CURSOR #1.0.0
910 TNK 0
920 PRINT NUMBER_OF_SIDES;" SIDES"
 930 CURSOR#1.0.180
 940 CSIZE 2,1
 950 PRINT*PRESS ANY KEY*
 960 PAUSE 99999
 970 MENU
 980 END DEFine MULTIIN
 1080 DEFine PROCedure PRISMIN
 1020 CLS: INK 0
 1030 CSIZE 3.1
 1040 PRINT" PRISMS"
 1050 CSIZE 2,0
 1060 PRINT
 1070 PRINT"INPUT THE NUMBER OF"
 1075 PRINT"SIDES YOU WANT TO YOUR OPEN ENDED"
 1078 PRINT"PRISM 4-15"
 1080 INPUT NUMBER_OF_SIDES
 1090 IF NUMBER OF SIDES(4 OR NUMBER OF SIDES)15
 THEN 60 TO 1080
 1100 PRINT "INPUT DEPTH 10-90"
 1110 INPUT DEPTH
 1120 IF DEPTH(10 OR DEPTH>90 THEN 80 TO 1110
 1130 PRINT "INPUT SIZE 10-50"
 1140 INPUT LIMIT
 1150 IF LIMIT(10 OR LIMIT)50 THEN 60 TO 1140
  1170 CLS:WINDOW#1,512,246,0,0
  1180 PRISM
  1190 CSIZE 3,0
  1200 CURSOR #1.0.215
  1210 INK 0
  1220 PRINT "PRESS ANY KEY"
  1230 PAUSE 99999
  1240 MENU
  1250 END DEFine PRISMIN
  1270 DEFine PROCedure PLAININ
  1290 CLS: CSIZE 3,1
              PLAINS"
  1300 PRINT"
  1310 PRINT
  1320 CSIZE 2,0
  1330 PRINT"INPUT THE THE NUMBER OF PLAINS YOU"
  1336 PRINT*WANT ON THE SCREEN IN THE RANGE 3-25"
  1348 INPUT NUMBER OF PLAINS
  1350 IF NUMBER OF PLAINS (3 OR NUMBER OF
  PLAINS>25 THEN GO TO 1340
  1370 CLS: WINDOW#1,512,246,0,0
  1380 plains
  1400 CURSOR#1,0,0
   1418 CSIZE 3,1
   1420 PRINT"PRESS ANY KEY"
   1430 PAUSE 99999
   1440 MENU
```

```
1450 END DEFine PLAININ
1490 DEFine PROCedure MULTI SIDED SHAPES
1510 CLS: BORDER 15,30
1520 PAPER 254
1530 FOR OUTLINE = 0 TO LIMIT STEP .5
1540 X_CENTRE = 95
1550 Y CENTRE = 50
1560 HORIZONTAL = X CENTRE - OUTLINE
1570 VERTICAL = Y CENTRE
1580 FOR P=0 TO 361 STEP 360/NUMBER OF SIDES
1590 LET HORIZONTAL 2 = X CENTRE - OUTLINE * COS
1600 LET VERTICAL 2 = Y CENTRE + OUTLINE * SIN
(Pept/19ft)
1610 INK P/NUMBER_OF_SIDES
1620 LINE HORIZONTAL, VERTICAL TO HORIZONTAL 2,
VERTICAL 2
1630 HORIZONTAL = HORIZONTAL 2
1640 VERTICAL = VERTICAL 2
1650 END FOR P
1660 END FOR OUTLINE
1670 END DEFine MULTI SIDED SHAPES
1710 DEFine PROCedure PRISM
1720 Y_CENTRE = 50
1730 X_CENTRE = 118
1750 CLS: PAPER 254
1760 BORDER #1,10,55
1770 FOR PRISM LOOP = 1 TO DEPTH
1780 HORIZONTAL=X CENTRE-LIMIT
 1790 VERTICAL=Y CENTRE
 1800 FOR P=0 TO 361 STEP 360/NUMBER_OF_SIDES
 1810 HORIZONTAL_2 = X_CENTRE - LIMIT
 * COS(P*PI / 188)
 1820 VERTICAL 2 = Y_CENTRE + LIMIT * SIN(P*PI / 180)
1830 INK P/NUMBER_OF_SIDES
 1840 LINE HORIZONTAL, VERTICAL TO HORIZONTAL 2,
 VERTICAL 2
 1850 HORIZONTAL = HORIZONTAL 2
 1868 VERTICAL = VERTICAL 2
 1870 END FOR P
 1880 LET X_CENTRE = X_CENTRE -.5
 1890 LET Y CENTRE = Y CENTRE
 1900 END FOR PRISM LOOP
 1910 END DEFine PRISM
 1950 DEFine PROCedure plains
 1960 PAPER 254
 1970 BORDER #1,10.33
  1990 CLS:FOR a=30 TO 90 STEP .75
  2000 LET N_CENTRE=130:LET Y_CENTRE=90
  2018 LET HORIZONTAL=X_CENTRE - a
  2020 LET VERTICAL = Y CENTRE
  2030 FOR B=0 TO 361 STEP 360/(NUMBER OF PLAINS-1)
  2040 LET HORIZONTAL 2=X CENTRE - a*COS (B*PI/180)
  2050 LET VERTICAL_2=Y_CENTRE + a*SIN (B*PI/180)
  2060 INK BYNUMBER OF PLAINS/2
  2070 LINE HORIZONTAL, VERTICAL TO HORIZONTAL 2 -
  HORIZONTAL, VERTICAL 2 - VERTICAL
  2080 LET HORIZONTAL = HORIZONTAL 2
  2090 LET VERTICAL = VERTICAL 2
  2110 NEXT B: NEXT a
  2120 END DEFine plains
  2140 SAVE MDV1_BOOT
```

820 IF NUMBER OF SIDES(3 OR NUMBER OF SIDES)20

Road Toad

Programming: Amstrad 464

Programming: C64

Min by Ken S

Straith

diject of Mino is to deservy the state in nine toostons whilst in the following whilst in the colors.

belleon and belicopter. Also to be avoid ed are the mines which appear at the start of a screen before becoming leviel ble. Full Instructions are given in the program.

on't wate to type it in send £2 to 5.
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VDU

This program, for any Amstrad provides a MDU command like a BBC micro. The syntax is MDU.a. Up to 64 parameters can be passe

110 MIDE LIMENON MACH 120 FOR AMARGN TO MACH 130 MISO DALFOIS A SALITATION 140 MINOTITAL, MANUFECTIVITA G.*

176 BATR CRUPE, N. 35, 16, 47,075 39,137, 186 BATR 23,116,78,47,30,72,40,12,50, 176 BATR 20,25,10,25,13,74,43,10,72, 200 BATR CJ,59,50

Money Maker

presents from y 5 for any square we presents from y 5 for area to be easily converted to other machines, as the program and you'll see what I mean. A little effort on your pain and you could soon to rolling in the brown sides.

oney Maker Utility
30 FRINT: FLASH 1: FOR f=
40 FEAD b
50 PRINT CREE (b);
40 MEXT f
70 DATA 67.104,121,32,110,
15.301,110,180,32,105,110,32
114,32
00 DATA 115,104,111,114,11

,16,32 90 DATA 115,104,111,114,116,32,112,114 111,103,114,97,109,118,32,102,111,114,3 2,66,121,118,101,115,32,97,110,100,32,00 105,101,99 90 DATA 101,115,32,97,110,100,32,101,9

Status

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